

Name _____

Period _____

1. Look at each expression. Is it equivalent to $36x + 24y$? Select Yes or No for expressions A-C.

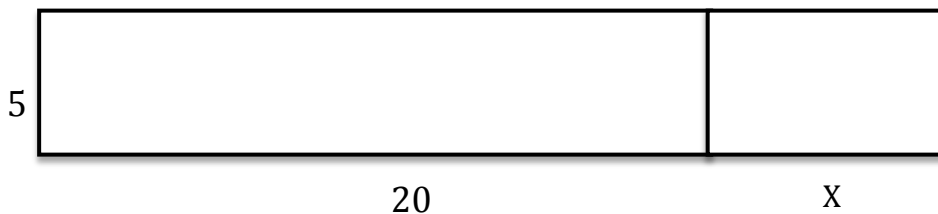
A. $6(6x + 4y)$ ☐ Yes ☐ No

B. $30(6x - 6y)$ ☐ Yes ☐ No

C. $12(x + 2y + 2x)$ ☐ Yes ☐ No

2. Gloria says the two expressions $\frac{1}{4}(12x + 24) - 9x$ and $-6(x + 1)$ are equivalent. Is she correct? Explain how you know.

3. Write two different expressions to represent the area of the rectangle.



9. Use the distributive property to find equivalent expressions to complete the table below.

Factored form	Expanded form
a. $2(x + 5)$	
b. $7(x - 3)$	
c.	$3x - 12$
d.	$15x + 20$
e. $(3b + 12) \div 3$	
f. $\frac{1}{4}(20x - 16)$	

Simplify each expression.

6. $(3x + 5y - 4) - (4x + 11)$

7. $(2x + 3y - 4) + (5x + 2)$

8. $-3(8x) + 6(4x)$

